

integers N, K, and V. Then, N lines follow. The ith of these lines contains the string Ai.

Output

For the ith campus, print a line containing "Case #i: " followed by K space-separated strings, the names of the attractions that Alex sees on his Vth visit, in decreasing order of popularity.

Constraints

1 < T < 80 $1 \le \mathbf{K} \le \mathbf{N} \le 50$ $1 \le \mathbf{V} \le 10^{12}$

Explanation of Sample

In the first case, Alex saw the LikeSign on his first visit and the Arcade on his second visit. On his third visit he sees the SweetStop as its the most popular of the attractions he hasn't yet seen.

In the third and fourth cases, Alex sees {LikeSign, Arcade, SweetStop} on his first visit, then {LikeSign, Arcade, SwagStore}, then {LikeSign, SweetStop, SwagStore}.





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